

OPTOELECTRONIC DEVICE HAVING AN INTEGRATED
CAPACITOR FORMED THEREON AND METHOD OF MANUFACTURING THE SAME

ABSTRACT OF THE DISCLOSURE

The present invention provides an optoelectronic device, a method of manufacture thereof and an integrated optoelectronic system incorporating the same. The optoelectronic device may be a tunable laser that includes a capacitor located over one of the first outer surface or the second outer surface. The outer metal layers of the tunable laser can be used to form a first electrode of the laser, after which a dielectric layer and a second electrode are deposited and patterned to form the laser having a capacitor incorporated thereon.